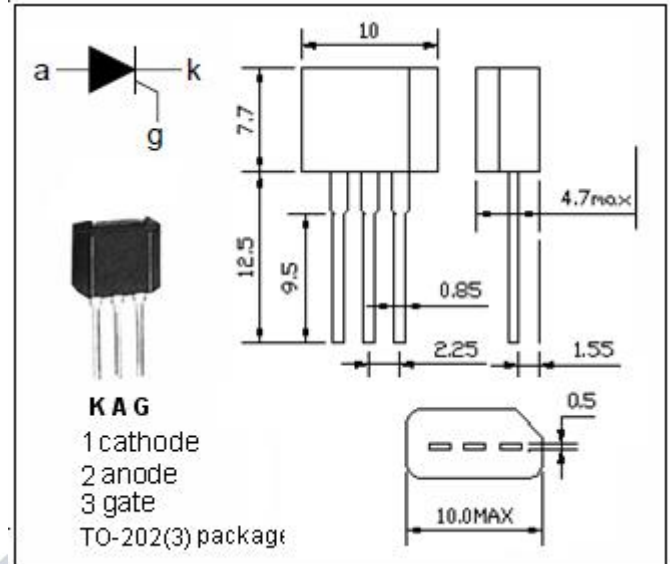


**isc Thyristors**
**X0402MF**
**FEATURES**

- $I_{T(RMS)}=4A$
- $V_{DRM}=600V$
- Low  $I_{GT}<200\mu A$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Highly sensitive triggering levels
- For capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar protection in low power supplies applications.


**ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ C$ )**

SYMBOL	PARAMETER	MIN	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	600	V
$V_{RRM}$	Repetitive peak reverse voltage	600	V
$I_{T(AV)}$	On-state current $180^\circ$ conduction angle	4	A
$I_{TSM}$	Non-repetitive surge peak on-state current $t=20ms$	30	A
$P_{G(AV)}$	Average gate power dissipation $T_j = 125^\circ C$	0.2	W
$T_j$	Junction temperature	125	
$T_{stg}$	Storage temperature	-40 to + 150	$^\circ C$

**ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ C$  unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current	$V_{RM}=V_{RRM}$ , $V_{RM}=V_{RRM}$ , $T_j=125^\circ C$		5 200	$\mu A$
$I_{DRM}$	Repetitive peak off-state current	$V_{DM}=V_{DRM}$ , $V_{DM}=V_{DRM}$ , $T_j=125^\circ C$		5 200	$\mu A$
$V_{TM}$	On-state voltage	$I_{TM}=8A$ , $t_p = 380 \mu s$		1.8	V
$I_{GT}$	Gate-trigger current	$V_D=12V$ , $R_L=140 \Omega$ , $R_{GK}=1K \Omega$		200	$\mu A$
$V_{GT}$	Gate-trigger voltage	$V_D=12V$ , $R_L=140 \Omega$ , $R_{GK}=1K \Omega$		0.8	V
$I_H$	Holding current	$V_D=24V$ , $R_{GK}=1K \Omega$ , $I_{TM}=4A$		6	mA

**NOTICE:**

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